LS LERMAN SENTER PLLC
WASHINGTON, DC

ORIGINAL

SALLY A. BUCKMAN 202.416.6762 SBUCKMAN@LERMANSENTER.COM

August 12, 2019

Accepted / Filed

AUG 12 2019

VIA HAND DELIVERY

Ms. Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, SW Washington, DC 20554 Federal Communications Commission
Office of the Secretary

Re:

Application for Direct Measurement (FCC Form 302-AM); WWNN (AM), Pompano Beach, FL (Facility ID No. 73930)

Dear Ms. Dortch:

On behalf of Beasley Media Group Licenses, LLC, licensee of the above-referenced AM broadcast station, I am transmitting herewith an original and two copies of an application on FCC Form 302-AM for direct measurement of power.

Because this is an application for direct measurement, no application filing fee is being submitted with this application.

Please date-stamp the enclosed "Return Copy" of this filing and return it to the courier delivering this package.

If you have any questions, please contact me.

Respectfully submitted,

Sally A. Buckman

Counsel to Beasley Media Group Licenses, LLC

ally & Buckman / KW

Enclosure

0004077426



Federal Communications Commission Washington, D. C. 20554

F . F .

Approved by OMB 3060-0627 Expires 01/31/98

AUG 12 2019

FCC 302-AM APPLICATION FOR AM **BROADCAST STATION LICENSE**

(Please read instructions before filling out form.

FOR FCC USE ONLY	Federal Communications Commission Office of the Secretary
FOR C	ommission use only o. BZ-2019 0812 ABJ

	NAMES OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.		
SECTION I - APPLICANT FEE INFORMATION			
PAYOR NAME (Last, First, Middle Initial)			
BEASLEY MEDIA GROUP LICENSES, LLC			
MAILING ADDRESS (Line 1) (Maximum 35 characters) 3033 RIVIERA DRIVE			
MAILING ADDRESS (Line 2) (Maximum 35 characters) SUITE 200			
CITY NAPLES	STATE OR COUNTRY (if for FL	reign address)	ZIP CODE 34103
TELEPHONE NUMBER (include area code) 239-263-5000	CALL LETTERS WWNN	OTHER FCC IDE 73930	ENTIFIER (If applicable)
2. A. Is a fee submitted with this application?			Yes ✓ No
B. If No, indicate reason for fee exemption (see 47 C.F.R. Section			
Governmental Enrity Noncommercial educ	cational licensee	her (Please explain	1):
C. If Yes, provide the following information:	L	imited Liab	ility Company
Enter in Column (A) the correct Fee Type Code for the service you Fee Filing Guide." Column (B) lists the Fee Multiple applicable for the			
(A) (B)	(0)		
(A) (B) FEE TYPE FEE MULTIPLE	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	=	FOR FCC USE ONLY
0 0 1	\$		
To be used only when you are requesting concurrent actions which re-	sult in a requirement to list mon	e than one Fee Typ	e Code.
(A) (B) (B)	(C)		FOR FCC USE ONLY
ADD ALL AMOUNTS SHOWN IN COLUMN C, AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED	TOTAL AMOUNT REMITTED WITH THI APPLICATION	s	FOR FCC USE ONLY
REMITTANCE.	L *		

0=0=101111 1=111111									
1. NAME OF APPLICANT BEASLEY MEDIA GROUP									
MAILING ADDRESS 3033 RIVIERA DRIVE				P. P					
CITY NAPLES			STATE FL		ZIP CODE 34103				
2. This application is for:	Commercial AM Direc	[tional	☐ Noncomm	nercial Ion-Directional					
Call letters	Community of License	Construct	ion Permit File No.	Modification of Construction	Expiration Date of Last				
WWNN	73930			Permit File No(s).	Construction Permit				
accordance with 47 C.F	3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620? If No, explain in an Exhibit.								
4. Have all the term construction permit bee	s, conditions, and obligant of the second of	ations se	et forth in the	above described	Yes No				
If No, state exceptions i	n an Exhibit.				EXTINCTION.				
the grant of the under	ges already reported, has lying construction permit d in the construction perm	which v	vould result in a	any statement or	Yes No				
If Yes, explain in an Ex	hibit.				LATIBIC NO.				
	led its Ownership Report (ce with 47 C.F.R. Section			ership	Yes No Does not apply				
If No, explain in an Exhi	bit.				Exhibit No.				
7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?									
involved, including an id (by dates and file numl information has been required by 47 U.S.C. So of that previous submiss the call letters of the st	ttach as an Exhibit a full lentification of the court or bers), and the disposition earlier disclosed in consection 1.65(c), the application by reference to the fiation regarding which the of filing; and (ii) the disposi	r administ n of the nection int need ile numb e applica	strative body and litigation. Who with another a only provide: (i) er in the case of tion or Section	d the proceeding ere the requisite pplication or as an identification of an application, 1.65 information	Exhibit No.				

8. Does the applicant, or any party to the application, have a the expanded band (1605-1705 kHz) or a permit or license expanded band that is held in combination (pursuant to the 5 with the AM facility proposed to be modified herein?	elther in the existing band	dor						
If Yes, provide particulars as an Exhibit.		Exhibit No.						
The APPLICANT hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because use of the same, whether by license or otherwise, and requests and authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended).								
The APPLICANT acknowledges that all the statements maderial representations and that all the exhibits are a material	de in this application and all part hereof and are inco	attached exhibits are considered reporated herein as set out in full in						
CERTIFICATION								
1. By checking Yes, the applicant certifies, that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).								
Name	Signature	1						
CHROUNE BEASLEY	Carolini 6	Seased						
Title	Date	Telephone Number						
CED	8-12-19	a39-a63-5000						
WILLFUL FALSE STATEMENTS ON THIS FORM ARI (U.S. CODE, TITLE 18, SECTION 1001), AND/OR								

CONSTRUCTION

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.



ENGINEERING EXHIBIT IN SUPPORT OF AN APPLICATION FOR DIRECT MEASUREMENT OF POWER STATION WWNN - POMPANO BEACH, FLORIDA 1470 kHz - 50 kW-D, 2.5 kW-N, U, DA-2 FACILITY ID: 73930

Applicant: Beasley Media Group Licenses, LLC

AUGUST, 2019

7901 Yarnwood Court Springfield, VA 22153-2899 tel: (703) 569-7704

fax: (703) 569-6417

email: info@ctjc.com

www.ctjc.com

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SECTION III OF FCC FORM 302-AM ENGINEERING STATEMENT OF JAMES D. SADLER



SECTION III - LICENSE APPLICATION ENGINEERING DATA										
Name of Applicar										
Beasley Media Group Licenses, LLC										
PURPOSE OF A	UTHORIZATI	ON APPLIED FOR	: (check one)							
	Station Licens	e	☑ Direct Me	asurement of Po	wer					
1. Facilities auth	orized in cons	truction permit								
Call Sign	i .	onstruction Permit		Hours of Ope	ration	Power in	kilowatts			
WWNN	(if applicable	N/A	(kHz) 1470	Unlin	nited	Night 2.5	Day 50			
2. Station locatio	n	·		<u> </u>						
State				City or Town						
Florida				Pompan	o Beach					
3. Transmitter lo	cation									
State	County			City or Town		Street address	-0			
FL	Broward	t		Tamarac		(or other identific 4431 Rock	•			
4. Main studio lo	cation	·			······································	1 4401110CK	isianu itu			
State	County			City or Town		Street address				
FL	Broward			Boca Rate	าท	(or other identific	•			
	al noint location	n (specify only if a	ithorizod diventia			1650 South I	Dixie Highway			
State State	County	ii (specify only ii ac	unorized direction	City or Town		Street address				
FL	Broward	4		1 '	~ n	(or other identific				
I I	Diowaic			Boca Rate	JII	1650 South E	ixie Highway			
6. Has type-appre	oved stereo g	enerating equipme	nt been installed?	,		Y	es 🗸 No			
7. Does the samp	oling system n	neet the requireme	nts of 47 C.F.R. S	Section 73.68?		✓ Y	es No			
							lot Applicable			
Attach as an Ex	hibit a detaile	d description of the	sampling system	as installed.		Exhi	bit No.			
		•	1 0 7				File			
8. Operating cons	stants:									
RF common point	or antenna ci	urrent (in amperes)	without	RF common p	oint or antenna	current (in ampere	s) without			
modulation for nig	ht system	7.35		modulation for	day system	32,45				
		point resistance (in	ohms) at	Measured ante	enna or commor	point reactance (i				
operating frequent Night	су	Day		operating frequency	uency	Day	-			
50		50		-j5		-j5	5			
Antenna indication	ns for direction	nal operation		1 ,-						
		Antenna r			nitor sample	Antonna b	200 011770-1-			
Tower	s	Phase reading(current			ase currents			
1(NE)		Night	Day	Night	Day	Night	Day			
2(EC)										
3(SE)		+124.0	+127.5	0.268	0.295	*****	***************************************			
4(NW	4(NW) +35.8 0.987									
5(WC	***************************************	+169.9	+82.0	0.974	0.147	*******				
6(SW	***************************************	-87.8	00-00 de ta-anto	0.138	******	they make that make the same	40° 00000° 00° 00° 100°			
Manufacturer and	type of antenr	na monitor: Po	tomac Inst	ruments, N	Model 1901	l-6, Serial #	841			

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SECTION III - Page 2

× , × × ×

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

				y						
Type Radiator Overall height in meters of radiator above base Overall height in meters of above ground (without overall height in meters above ground (include loaded or sect										
uniform cross-section,	insulator, or above base, if	obstruction lig		obstruction light		describe fully in an				
guyed, base insulated	1	1	Exhibit.							
#3, 6	grounded. #1, 2, 4, 5 50.9	#1, 2, 4, 5	51.8 121.6	#1,2,4,5 #3	51.8 122.8	Exhibit No.				
uniform cross-section, guyed, shunt fed	#3 119.5	#3 #6	52.1	#6	53.3	N/A				
guyed, snunt red #6 50.9 #6 52.1 #6 53.3										
Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.										
North Latitude 26	° 10'	46 "	West Longitue	^{de} 80 °	13	' 15 "				
If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.										
Also, if necessary for a dimensions of ground sy	a complete description, attac stem.	ch as an Exhi	bit a sketch o	f the details and	i	Exhibit No. Eng Stmt				
10. In what respect, if a	ny, does the apparatus const	ructed differ fro	om that describ	ed in the applica	tion for cons	struction permit or in the				
N/A										
L				MATERIAL CONTRACTOR OF THE SECURITY OF THE SEC	COMMUNICATION COLUMN	I				
11. Give reasons for the	change in antenna or comm	on point resista	ince.							
N/A										
	the applicant in the capacity true to the best of my knowle			ave examined th	ne foregoing	statement of technical				
		1,	· · · · · · · · · · · · · · · · · · ·	. IVY.II.	1					
Name (Please Print or Ty James D. Sadler	• •		signature (cyle)	k appropriate bo	x below)					
Address (include ZIP Co	de)	c	Date //	MWA W						
Carl T. Jones Co			August 9	2019						
7901 Yarnwood C	Court	T	elenhone No	(Include Area Co	de)					
Page 12 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	ndokungu Kandy (2019042) valati valatili i silocci nestit proscit al volas adalik (kokalak) (kokalak)	prior register for will control to		•	uc)					
Springfield, VA 2	2153		(703) 569	2-110 4						
Technical Director			Registered	d Professional Er	ngineer					
Chief Operator		V	Technical	Consultant						
Other (specify)										

FCC 302-AM (Page 5) August 1995



STATEMENT OF JAMES D. SADLER
IN SUPPORT OF AN APPLICATION
FOR DIRECT MEASUREMENT OF POWER
STATION WWNN - POMPANO BEACH, FLORIDA
1470 kHz - 50 kW-D, 2.5 kW-N, U, DA-2
FACILITY ID: 73930

Applicant: Beasley Media Group Licenses, LLC

I am a Technical Consultant, an employee in the firm of Carl T. Jones Corporation with offices located in Springfield, VA. My education and experience are a matter of record with the Federal Communications Commission.

Introduction

This office has been authorized by Beasley Media Group Licenses, LLC (herein "Beasley"), licensee of Radio Station WWNN, Pompano Beach, Florida, to prepare this statement, Section III of FCC Form 302-AM, and the associated figures in support of and Application for Direct Measurement of Power. Radio Station WWNN operates on a frequency of 1470 kHz, on an unlimited time basis, with a daytime power of 50 kW and a nighttime power of 2.5 kW. The station utilizes different directional patterns for its daytime and nighttime operations (DA-2).

T-Mobile recently completed the modification of cellular antennas and associated equipment located on tower number 6 of the WWNN directional antenna array. Tower

number 6 is detuned during daytime operation and is an active radiator in the nighttime directional antenna array. Partial proof of performance measurements were performed on the daytime and nighttime directional antenna patterns before and after the T-Mobile equipment modifications.

After completion of the T-Mobile equipment modifications, it was observed that the WWNN daytime and nighttime parameters had changed. This office was authorized to perform minor adjustment of the daytime and nighttime antenna phasing and coupling system to restore the tower number 6 detuning and restore the daytime and nighttime directional antennas to the original antenna monitor values in place prior to the T-Mobile modifications. Partial proof of performance measurements showed that the daytime pattern exceeded the authorized values on one of the two daytime monitored radials. Partial proof of performance measurements performed on the five nighttime monitored radials showed that all five nighttime radials were within the authorized limits. Further adjustment of the daytime directional antenna system performed by the undersigned was required to restore the pattern to its authorized values.

Field Strength Measurements

Field strength measurements were performed along each of the two daytime monitored radial paths contained in the 1995 daytime full Proof-of-Performance, FCC File No. BL-19950901AB (herein "1995 Daytime Proof") and along each of the five nighttime monitored radial paths contained in the 1979 nighttime full Proof-of-Performance, FCC File No. BL-14228 (herein "1979 Nighttime Proof"). A minimum of 8

field strength measurements were taken at accessible locations previously established in the 1995 Daytime Proof and the 1979 Nighttime Proof, including the authorized monitoring points, at distances generally between 3 kilometers and 15 kilometers from the transmitter site. All measurements were made during the time period between two hours after local sunrise and two hours before local sunset.

All field strength measurements contained herein were made by Mr. Don Mansfield, chief engineer of Station WWNN and the undersigned. Mr. Mansfield is experienced in performing field strength measurements on directional antenna systems. A total of two field strength meters were employed to make all of the measurements contained in this document. The performance of the field intensity meters was verified in the field by comparing measured field strength values at several different full scale settings and verifying that the field strength values, as measured on each meter, agreed within the manufacturer's stated accuracy. In addition, the performance of these meters have been compared to another more recently calibrated meter and agreed within the manufactures stated accuracy. Pertinent information for each of the meters employed follows:

Manufacturer / Model	<u>Serial No.</u>	Calibration Date
Potomac Instruments / FIM-41	446	October, 2009
Potomac Instruments / PI-4100	188	January, 2010

The 2019 measured field strengths and the corresponding data from the 1995 Daytime Proof and the 1979 Nighttime Proof for the daytime and nighttime directional antenna patterns are tabulated in Figure 3. For each daytime and nighttime measurement location, the 2019 field strength was compared to the field strength measured at the location in the 1995 Daytime Proof and the 1979 Nighttime Proof, respectively. An arithmetic and logarithmic ratio was calculated for each location and the average ratio calculated for each radial bearing. The antilogarithm of the averages were multiplied by the daytime and nighttime directional inverse distance fields contained in the 1995 Daytime Proof and the 1979 Nighttime Proof, respectively, to yield the 2019 daytime and nighttime directional inverse distance field values.

A comparative summary of the 2019 daytime measured field strength data and the standard pattern radiation for the two measured daytime radials is contained herein as Figure 1. A comparative summary of the 2019 nighttime measured field strength data and the standard pattern radiation for the five measured nighttime radials is contained herein as Figure 2. In no case does the 2019 inverse distance field strength exceed the standard pattern value for either the daytime or nighttime directional pattern.

Monitor Point Values

Analysis of the daytime and nighttime partial proof field strength measurements indicates that the field strength associated with the 207 degree nighttime monitor point should be increased to the value shown in Figure 4. No change in the maximum field strength values of the other daytime and nighttime monitor points is warranted. Data

STATEMENT OF JAMES D. SADLER STATION WWNN - POMPANO BEACH, FLORIDA

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pertinent to the determination of the maximum field strength value at each daytime and

nighttime monitor point location is contained in Figure 4.

Other Antennas Mounted on the Towers

There are multiple antennas located on tower number three, including a FM

translator antenna (W245BC), cellular antennas belonging to Sprint, a UHF 2-way

antenna, and 2 microwave antennas. Tower number 6 supports the cellular antennas of

multiple carriers. Both towers are grounded shunt fed radiators and therefore isolation

circuitry is not employed on either tower.

Summary

It is submitted that the daytime and nighttime directional patterns of Station

WWNN are in proper adjustment and compliant with the station's authorization. Further,

it is requested that a superseding license be issued to reflect the changes in the

daytime and nighttime operating parameters and modification of the nighttime

monitoring point data referenced herein.

This engineering statement, FCC Form 302-AM, Section III, and the associated

figures were prepared by me or under my direct supervision and the information therein

is believed to be true and correct.

Dated: August 9, 2019

SUMMARY OF DAYTIME MEASURED FIELD STRENGTH DATA STATION WWNN - POMPANO BEACH, FLORIDA 1470 kHz, 50 kW-D, 2.5 kW-N, DA-2

Monitored Radial (deg. T.)	1995 DA-D Inverse Distance Field Strength (mV/m at 1 km)	2019 / 1995 Antilog of Average Ratio	DA-D Measured Inverse Distance Field Strength (mV/m at 1 km)	Daytime Standard Pattern Radiation (mV/m at 1 km)
188.5	104	0.8318	86	118
289	346	1.2999	450	613

SUMMARY OF NIGHTTIME MEASURED FIELD STRENGTH DATA STATION WWNN - POMPANO BEACH, FLORIDA 1470 kHz, 50 kW-D, 2.5 kW-N, DA-2

Monitored Radial (deg. T.)	1979 DA-N Inverse Distance Field Strength (mV/m at 1 km)	2019 / 1979 Antilog of <u>Average Ratio</u>	DA-N Measured Inverse Distance Field Strength (mV/m at 1 km)	Nighttime Standard Pattern Radiation (mV/m at 1 km)
3	64.4	0.4401	28.3	83.8
207	48.0	1.3383	64	96.6
247	143.2	0.6807	97.5	211.7
270	178.6	0.7104	127	195.7
330	370.1	0.8083	299	403.8

		1979					
		Proof			2.5 kW, E	DA-N	
1979 Proof		Field			Field		Log
Point	Distance	Strength		Time	Strength	Ratio	Ratio
<u>Number</u>	<u>(kilometers)</u>	<u>(mV/m)</u>	<u>Date</u>	(local)	<u>(mV/m)</u>	<u>(2019/1979)</u>	<u>(2019/1979)</u>
37	3.41	13.2	7/12/2019	1230	9.6	0.7273	-0.1383
38	3.70	10	7/12/2019	1233	4.7	0.4700	-0.3279
42 MP	4.35	10.3	7/12/2019	1237	6	0.5825	-0.2347
51	6.79	7	7/12/2019	1254	1.02	0.1457	-0.8365
54	7.77	3.5	7/12/2019	1300	2.7	0.7714	-0.1127
57	8.53	3.6	7/12/2019	1305	0.76	0.2111	-0.6755
60	10.35	2.5	7/12/2019	1343	1	0.4000	-0.3979
61	11.83	1.38	7/12/2019	1352	0.54	0.3913	-0.4075
62	12.20	1.14	7/12/2019	1354	0.67	0.5877	-0.2308
63	12.59	1.1	7/12/2019	1358	0.69	0.6273	-0.2025
				Avor	ogo Batio	0.4014	0.0504
					age Ratio	0.4914	-0.3564
				Antilog o	f Average		0.4401

1995 Proof		1995 Proof Field			50 kW, D	A-D	Log
Point <u>Number</u>	Distance (kilometers)	Strength (mV/m)	<u>Date</u>	Time (local)	Strength (mV/m)	Ratio (2019/1995)	Ratio (2019/1995)
18	2.95	20	7/14/2019	1144	12.5	0.6250	-0.2041
20 MP	3.43	12.5	7/14/2019	1139	9.42	0.7536	-0.1229
25	4.58	4.8	7/14/2019	1132	2.45	0.5104	-0.2921
30	6.05	9.2	7/14/2019	1123	3.68	0.4000	-0.3979
34	7.20	4.2	7/14/2019	1116	3.4	0.8095	-0.0918
40	10.38	1.8	7/14/2019	1028	2.07	1.1500	0.0607
42	12.25	1.8	7/14/2019	1035	3.26	1.8111	0.2579
44	14.12	1.4	7/14/2019	1044	1.07	0.7643	-0.1167
45	15.17	0.8	7/14/2019	1049	1.23	1.5375	0.1868
*				Aver	age Ratio	0.9290	-0.0800
				Antilog o	f Average		0.8318

		1979					
		Proof			2.5 kW, [DA-N	
1979 Proof		Field			Field		Log
Point	Distance	Strength		Time	Strength	Ratio	Ratio
<u>Number</u>	(kilometers)	<u>(mV/m)</u>	<u>Date</u>	(local)	<u>(mV/m)</u>	<u>(2019/1979)</u>	<u>(2019/1979)</u>
36	3.62	13.8	7/12/2019	1546	10.7	0.7754	-0.1105
39	4.83	3.8	7/12/2019	1536	5.53	1.4747	0.1687
40 MP	5.15	3.7	7/12/2019	1532	7.63	2.0904	0.3202
42	5.95	3.8	7/12/2019	1527	4.67	1.2453	0.0953
45	7.40	2.6	7/12/2019	1511	3.05	1.1731	0.0693
49	9.82	1.0	7/12/2019	1428	2.17	2.1919	0.3408
50	10.51	1.10	7/12/2019	1421	1.2	1.0909	0.0378
51	11.54	0.64	7/12/2019	1433	0.866	1.3531	0.1313
52	13.20	0.60	7/12/2019	1421	0.614	1.0233	0.0100
53	13.57	0.35	7/12/2019	1415	0.558	1.5943	0.2026
				Aver	age Ratio	1.4012	0.1266
			,	Antilog o	f Average		1.3383

		1979					
		Proof			2.5 kW, E	DA-N	
1979 Proof		Field			Field		Log
Point	Distance	Strength		Time	Strength	Ratio	Ratio
<u>Number</u>	(kilometers)	<u>(mV/m)</u>	<u>Date</u>	(local)	<u>(mV/m)</u>	(2019/1979)	<u>(2019/1979)</u>
36	3.78	28	7/12/2019	1232	23.7	0.8464	-0.0724
39	4.51	17.5	7/12/2019	1238	17.6	1.0057	0.0025
41	5.20	15.8	7/12/2019	1308	9.96	0.6304	-0.2004
43 MP	6.12	15.2	7/12/2019	1314	9.49	0.6243	-0.2046
47	7.63	10	7/12/2019	1321	7.65	0.7650	-0.1163
49	8.45	9.6	7/12/2019	1330	6.53	0.6802	-0.1674
50	9.30	7	7/12/2019	1335	3.52	0.5029	-0.2986
51	9.62	7.4	7/12/2019	1341	3.31	0.4473	-0.3494
53	11.89	4.5	7/12/2019	1351	3.6	0.8000	-0.0969
				_			
				Ave	age Ratio	0.7002	-0.1671
			Antilog of Average 0.6				0.6807

		1979 Proof	2.5 kW, DA-N					
1979 Proof Point <u>Number</u>	Distance (kilometers)	Field Strength (mV/m)	<u>Date</u>	Time (local)	Field Strength (mV/m)	Ratio (2019/1979)	Log Ratio (2019/1979)	
41	3.30	39	7/12/2019	1544	30.2	0.7744	-0.1111	
42 MP	3.65	32	7/12/2019	1547	21.3	0.6656	-0.1768	
43	3.89	31.5	7/12/2019	1549	30.5	0.9683	-0.0140	
44	4.44	26.2	7/12/2019	1555	11.6	0.4427	-0.3538	
45	4.72	20.8	7/12/2019	1558	16.2	0.7788	-0.1085	
46	5.23	18.5	7/12/2019	1603	16	0.8649	-0.0631	
47	5.47	16.5	7/12/2019	1607	11.3	0.6848	-0.1644	
48	5.63	16.8	7/12/2019	1612	13	0.7738	-0.1114	
49	6.04	14.5	7/12/2019	1615	10.4	0.7172	-0.1443	
50	6.31	14	7/12/2019	1619	8.1	0.5786	-0.2376	
				Ave	age Ratio	0.7249	-0.1485	
				0.7104				

		1995 Proof			50 KW C	1Δ-D		
1995 Proof		Field	50 kW, DA-D Field Log					
Point <u>Number</u>	Distance (kilometers)	Strength (mV/m)	<u>Date</u>	Time (local)	Strength (mV/m)	Ratio (2019/1995)	Ratio (2019/1995)	
		_				120101100/	<u> (2010/1000)</u>	
6	1.00	165	7/14/2019	1040	290	1.7576	0.2449	
8	1.25	225	7/14/2019	1045	358	1.5911	0.2017	
10	2.20	140	7/14/2019	1058	186	1.3286	0.1234	
16	3.15	83	7/14/2019	1104	119	1.4337	0.1565	
19	3.60	61	7/14/2019	1109	90	1.4754	0.1689	
24 MP	4.78	44	7/14/2019	1113	33.2	0.7545	-0.1223	
28	5.46	34.5	7/14/2019	1116	39.5	1.1449	0.0588	
30	5.90	35	7/14/2019	1119	47	1.3429	0.1280	
33	6.26	32	7/14/2019	1122	35	1.0938	0.0389	
36	7.00	31.5	7/14/2019	1128	43.5	1.3810	0.1402	
				Aver	age Ratio	1.3303	0.1139	
				Antilog o	f Average		1.2999	

		1979 Proof			O E LANCE	NA NI	
1979 Proof		Field			2.5 kW, [DA-N	Log
Point <u>Number</u>	Distance (kilometers)	Strength (mV/m)	<u>Date</u>	Time (local)	Strength (mV/m)	Ratio (2019/1979)	Ratio (2019/1979)
39	4.10	66	7/12/2019	1528	64	0.9697	-0.0134
41	4.79	52	7/12/2019	1521	54.2	1.0423	0.0180
42	5.23	47	7/12/2019	1516	36.9	0.7851	-0.1051
44	5.94	42	7/12/2019	1510	35.7	0.8500	-0.0706
45	6.29	38	7/12/2019	1504	38.7	1.0184	0.0079
47 MP	7.31	30	7/12/2019	1447	21.2	0.7067	-0.1508
49	7.98	24.5	7/12/2019	1442	18.8	0.7673	-0.1150
50	8.85	23.2	7/12/2019	1430	14.2	0.6121	-0.2132
52	9.78	17.2	7/12/2019	1423	12.9	0.7500	-0.1249
55	11.17	12.5	7/12/2019	1414	8.7	0.6960	-0.1574
				Aver	age Ratio	0.8198	-0.0924
			Antilog of Average 0.86				

SUMMARY OF DATA PERTINENT TO MONITORING POINT MAXIMA STATION WWNN - POMPANO BEACH, FLORIDA 1470 kHz - 50 kW-D, 2.5 kW-N, U, DA-2

Daytime Monitored Radials

			Measured	Measured	Authorized Standard	Suggested Maximum
Radial	Point	Distance	Field Strength	IDF	Pattern Field	
(deg.T)	<u>Number</u>	(kilometers)	<u>(mV/m)</u>	<u>(mV/m)*</u>	<u>(mV/m)*</u>	(mV/m)
188.5	20	3.43	9.42	86	118	14.3**
289	24	4.78	33.2	450	613	77.8**

Nighttime Monitored Radials

					Authorized	Suggested
			Measured	Measured	Standard	Maximum
Radial	Point	Distance	Field Strength	IDF	Pattern Field	Field Strength
(deg.T)	<u>Number</u>	(kilometers)	<u>(mV/m)</u>	<u>(mV/m)*</u>	<u>(mV/m)*</u>	<u>(mV/m)</u>
3	42	4.35	6.0	28.3	83.8	13.5**
207	40	5.15	7.63	64	96.6	11.5
247	43	6.12	9.49	97.5	211.7	20.0**
270	42	3.65	21.3	127	195.7	35.0**
330	47	7.31	21.2	299	403.8	32.8**

^{*}mV/m at one kilometer

^{**}Presently licensed value